GE
Lighting Solutions

GEH-3926D

INSTRUCTIONS
TunnelGuard™ Luminaire
Installation and Maintenance

READ THOROUGHLY BEFORE INSTALLING

⚠ WARNING

Risk of electric shock
- Turn power off before servicing – see instructions

⚠ CAUTION

Risk of burn
- Do not touch operating luminaire

GENERAL

This luminaire is designed for tunnel lighting applications, and should not be used in high ambient temperature enclosures; it should be installed and maintained according to the following recommendations.

UNPACKING

This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm.

INSTALLATION MOUNTING:

⚠ CAUTION

Unit will fall if not installed properly
- Follow installation instructions

Two types of mounting are available for this luminaire:

A. SURFACE MOUNTING: (Figure 1)

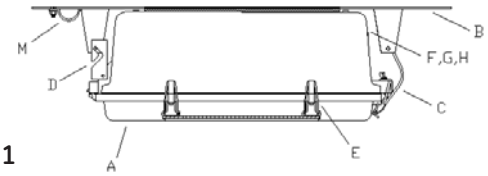
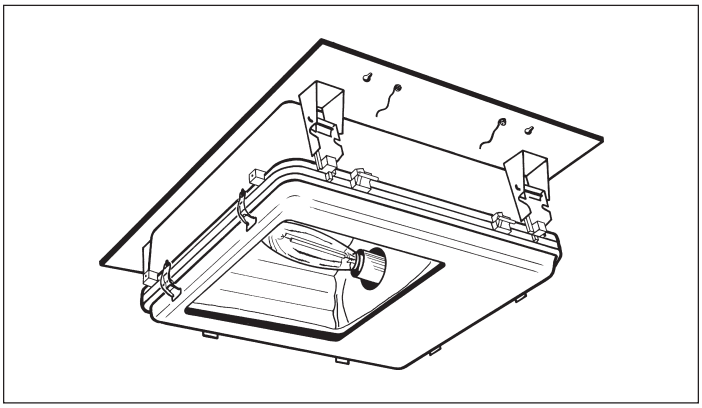


Figure 1

Install luminaire (A) using the slots provided on the mounting plate (B).

NOTE: Orient the luminaire with the traffic flow according to the direction label provided on its surface.

NOTE: To remove the luminaire from the mounting plate release the two (2) large latches (C). Gently swing the luminaire away from the plate, then lift it out from the quick-release hinges (D).



CAUTION: Hold the luminaire firmly to keep it from swinging when the latches are released.

Reverse the above steps for mounting the luminaire.

B. RECESSED MOUNTING: (Figure 2)

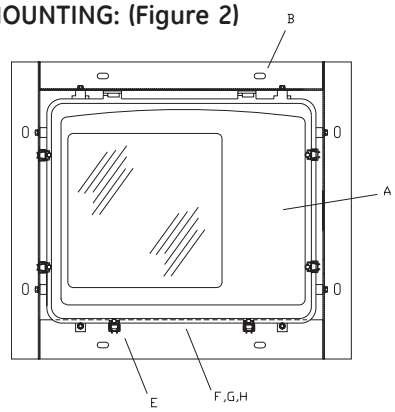


Figure 2

Install luminaire (A) using the slots provided on the mounting plate (B).

NOTE: Orient the luminaire with the traffic flow according to the direction label provided on its surface.

WIRING

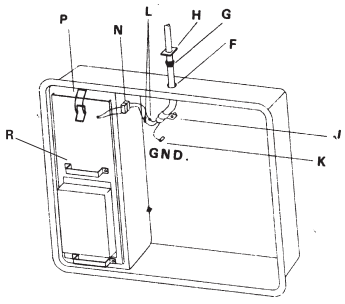


Figure 3

MAKE ALL ELECTRICAL CONNECTIONS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND US COAST GUARD REQUIREMENTS CFR 46 SECTION 110 THROUGH 113.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to GE Lighting Solutions.

Verify that supply voltage is correct by comparing it to nameplate.

NOTE: On units with power cord attached:
a) If the lamp is already installed go directly to Step 6.
b) If the lamp is not yet installed, do Step 1, then go to Step 5.

1. Open the door by unlatching the door latches (E).

CAUTION: Hold door firmly to keep from swinging open when the latches are released.

2. Feed the power cable through the cable entrance hole (F), rubber bushing (G), and compression plate (H). Secure in place by tightening the screws provided.

NOTE: Cable strain relief and sealing are provided by the compression plate and rubber bushing supplied for 9/16" O.D. cable. Three conductor, AWG No. 14 cable is recommended. Stranded cable is required for shipboard applications.

3. Route the cable through the plastic cable clip (J).
4. Connect ground lead to the ground screw (K) and make electrical connections to the luminaire pigtail leads (L) or the terminal board.

Do not remove insulated connectors from wires not needed for required voltage connection.

When changing voltage on reconnectable units, move only the lead with the insulated connector.

IF SINGLE VOLTAGE:

All single voltage ballasts are pre-wired such that user need only connect the supply conductors.

IF MULTIVOLT: (120/208/240/277 volts)

Connect the ballast lead with the insulated terminal to the desired voltage terminal as indicated on the ballast terminal nameplate.

IF MULTIWATT:

Multiwatt ballasts are available in various combinations of wattage. See wiring instructions on wiring tag inside the luminaire.

5. Install the lamp and close and latch the door.

CAUTION

Risk of burn
- Allow lamp/fixture to cool before handling

Use only lamps specified on nameplate. Observe lamp manufacturer's recommendations and restrictions on lamp operation, particularly ballast type, burning position, etc.

Lamp Tightness – Mogul Base Lamp: The lamp should be securely inserted to the NEMA-EEI specified torque of 35 inch-pounds, which is best achieved by very firmly tightening to insure application of sufficient torque. Tightening must be sufficient to fully depress and load the center contact of the socket.

6. (SURFACE MOUNTING UNITS only.) Use one of the two cable clips (M) to retain and control the power cable slack. (See Figure 1).

MAINTENANCE

NOTE: The optical door is opened by releasing the optical door latches (E) and swinging the door open.

CAUTION: Hold door firmly to keep it from swinging open when the latches are released.

NOTE: The door may be removed by opening approximately 190 degrees, lifting up slightly and sliding (sideways) the door off the hinge pins on the housing.

To remove the ballast tray (Figure 3):
1. Disconnect the wiring connector plug (N).
2. Release the latch (P) and slide the tray to the opposite side so that the support tabs disengage and release the tray from the luminaire.

CAUTION: When the tabs disengage, the tray is no longer supported by the luminaire. Firmly grip the handles (R) to prevent the tray from falling.

It will occasionally be necessary to clean the outside of the door glass to maintain the light level. Frequency of cleaning will depend on the ambient dirt level and the minimum light level which is acceptable to the user. The door glass should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should the optical assembly become dirty on the inside, wipe the reflector and clean the door glass in the above manner. Replace any damaged gasket.

The light output of a luminaire is also dependent on the age of the lamp. In applications where the light level is critical it may be desirable to replace lamps before they burn out. The lamp manufacturer can provide data showing how the lamp light output decreases with use.

GE Lighting Solutions is a subsidiary of the General Electric Company. Evolve and other trademarks belong to GE Lighting Solutions. The GE brand and logo are trademarks of the General Electric Company.
© 2011 GE Lighting Solutions. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.

35-201578-K3 (3/06)